IN THE CLAIMS:

Please AMEND claims 1, 5-7, 9-20, 22, and 24-25; and Please ADD claim 30, as set forth below.

1. (Currently Amended) A system, configured to:

perform for cluster management that allows to enable the configuration and monitoring of a cluster from a single-point,

the system comprising:

a network interface configured to communicate with nodes in the cluster;

a memory configured to store information relating to cluster management;

a configuration subsystem coupled to a remote management broker, wherein the remote management broker is configured to distribute information between the nodes in the cluster; and

a processor configured to:

access the cluster from the single-point;

obtain information relating to devices within the cluster;

present the information to a user; and

determine network management (NM) operations to perform to the cluster;

perform the determined NMnetwork management operations; and

determine if whether the NMnetwork management operations on the cluster were applied correctly, and if when the network management operations were not applied correctly, roll back to a successful configuration.

- 2. (Previously Presented) The system of Claim 1, wherein the processor is configured to provide a command line interface that is configured to access the cluster.
- 3. (Previously Presented) The system of Claim 1, wherein the processor is configured to provide a graphical user interface that is configured to access the cluster.
- 4. (Original) The system of Claim 1, further comprising:

 an aggregator configured to aggregate data relating to the devices within the cluster.
- 5. (Currently Amended) The system of Claim 1, wherein the RMBremote management broker further comprises:
 - a secure transport configured to transport messages;

 ana RMBremote management broker server coupled to the secure transport; and

ana RMBremote management broker client coupled to the secure transport.

- 6. (Currently Amended) The system of claim 1, wherein the RMBremote management broker is further configured to collect attributes from the Configuration configuration Subsystemsubsystem.
- 7. (Currently Amended) The system of Claim 1, wherein the messages include a header which that is configured to authenticate the messages.
- 8. (Original) The system of Claim 7, wherein the header includes a message authentication code that acts as a shared secret within the cluster and a magic field that identifies the message as a remote management broker message.
- 9. (Currently Amended) A method, comprising: for providing cluster management that allows to enable the configuration and monitoring of a cluster from a single-point,

the providing cluster management comprising:

accessing the cluster from the single-point;

obtaining attributes relating to devices within the cluster;

receiving input from a user relating to the attributes;

determining network management (NM) operations to perform on the cluster based on the received input;

performing the determined <u>NMnetwork management</u> operations on the cluster; and

determining if whether the NMnetwork management operations on the cluster were applied correctly, and if when the network management operations were not applied correctly, rolling back to a successful configuration.

- 10. (Currently Amended) The method of Claim 9, further comprising:

 applying a configuration lock that is intended to prevent other applications from

 performing NMnetwork management operations on the devices within the cluster.
- 11. (Currently Amended) The method of Claim 9, wherein the providing cluster management from the single-point comprises providing cluster management from the single-point is a selected from one of a command line interface and or a graphical user interface.
- 12. (Currently Amended) The method of Claim 11, further comprising: distributing information between the nodes in the cluster using a remote management broker.

- 13. (Currently Amended) The method of Claim 12, wherein the performing the determined NMnetwork management operations on the cluster further comprises distributing the NMnetwork management operations to each of the devices.
- 14. (Currently Amended) The method of Claim 12, further comprising:

 determining if whether the NMnetwork management operations on the cluster were performed correctly, and if when the network management operations were not performed correctly, rolling back to a successful configuration.
 - 15. (Currently Amended) The method of Claim 12, further comprising: utilizing a header which that is configured to authenticate the messages.
- 16. (Currently Amended) The method of Claim 9, further comprising:

 applying a configuration lock that is intended to prevent other applications from

 performing NMnetwork management operations on the devices within the cluster during
 a predetermined time; and

releasing the configuration lock after the NMnetwork management operations are performed.

17. (Currently Amended) The method of Claim 9, further comprising:

aggregating data relating to the devices within the cluster on a single device within the cluster.

18. (Currently Amended) A computer readable storage medium comprising instructions for causing a computer to perform:

obtaining attributes relating to devices within a cluster from a single-point; receiving input relating to the attributes;

determining network management (NM)-operations to perform on the cluster based on the received input;

distributing the <u>NMnetwork management</u> operations to the devices within the cluster;

applying the NMnetwork management operations; and

determining if whether the NMnetwork management operations on the cluster were applied correctly, and if when the network management operations were not applied correctly, rolling back to a successful configuration.

19. (Currently Amended) The computer readable storage medium of Claim 18, further comprising instructions for causing a computer to perform:

applying a configuration lock that is intended to prevent other applications from performing NMnetwork management operations on the devices within the cluster during a predetermined time.

20. (Currently Amended) The computer readable storage medium of Claim 18, wherein receiving the input further comprises at least one of utilizing a command line interface and or utilizing a graphical user interface.

21. (Canceled)

22. (Currently Amended) The computer readable storage medium of Claim 18, further comprising instructions for causing a computer to perform:

providing a header which that is configured to help in authenticating the messages.

23. (Previously Presented) The computer readable storage medium of Claim 18, further comprising instructions for causing a computer to perform:

aggregating data relating to the devices within the cluster on a single device within the cluster.

24. (Currently Amended) An-A cluster management apparatus for cluster management, comprising:

means for obtaining attributes relating to devices within a cluster from a singlepoint;

means for receiving input relating to the attributes;

means for determining network management (NM)-operations to perform on the cluster based on the received input;

means for distributing the NMnetwork management operations to the devices within the cluster;

means for applying the <u>NMnetwork management</u> operations to the devices within the cluster; and

means for determining <u>if-whether</u> the <u>network management</u> operations on the cluster were applied correctly, and <u>if-when the network management operations on the cluster were not applied correctly</u>, rolling back to a successful configuration.

25. (Currently Amended) The apparatus of Claim 24, further comprising:

means for applying a configuration lock that is intended to prevent other

applications from performing NMnetwork management operations on the devices within the cluster during a predetermined time.

26. (Canceled)

27. (Previously Presented) The system of Claim 8, wherein the message authentication code is calculated from contents of the message and from a shared secret value that is known to the devices within the cluster.

- 28. (Previously Presented) The method of Claim 15, wherein the header comprises a message authentication code that is calculated from contents of the message and from a shared secret value that is known to the devices within the cluster.
- 29. (Previously Presented) The computer readable storage medium of Claim 22, wherein the header comprises a message authentication code that is calculated from contents of the message and from a shared secret value that is known to the devices within the cluster.
 - 30. (New) A system, comprising:

means for performing cluster management to enable configuration and monitoring of a cluster from a single-point,

the means for performing cluster management comprising:

network interface means for communicating with nodes in the cluster;

memory means for storing information relating to cluster management;

subsystem means for configuring, coupled to remote management broker means

for distributing information between the nodes in the cluster; and

processor means for

accessing the cluster from the single-point;

obtaining information relating to devices within the cluster;

presenting the information to a user;

determining network management operations to perform to the cluster;

performing the determined network management operations; and

determining whether the network management operations on the cluster

were applied correctly, and when the network management operations were not applied

correctly, rolling back to a successful configuration.